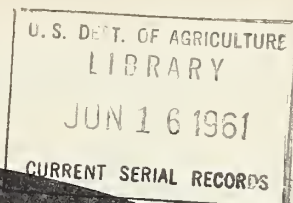


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Dairy-Herd-Improvement Letter

ARS-44-93
(Vol. 37, No. 2)

February 1961

ALL-TIME PEAK IN DAIRY RECORDKEEPING

On January 1, 1961, more herds and cows than ever before were included in the three recordkeeping plans, DHIA, OS, and WADAM, which collectively make up the National Cooperative Dairy Herd Improvement Program. On January 1, 1961, the Program included 69,419 herds and 2,594,201 cows. This number of cows represents 14.8 percent of the milk cows of the nation.

STANDARD DHIA - 1,867,469 cows are included in the Standard Recordkeeping Plan. This is 120,717, or 6.9 percent more cows than were in this plan January 1, 1960.

OWNER-SAMPLER - 655,885 cows are included in the Owner-Sampler Recordkeeping Plan. This is 39,986, or 6.5 percent more than were in the plan January 1, 1960.

WEIGH-A-DAY-A-MONTH - 70,847 cows are included in the WADAM Recordkeeping Plan. This is 5,545, or 7.3 percent less cows than were in the plan January 1, 1960.

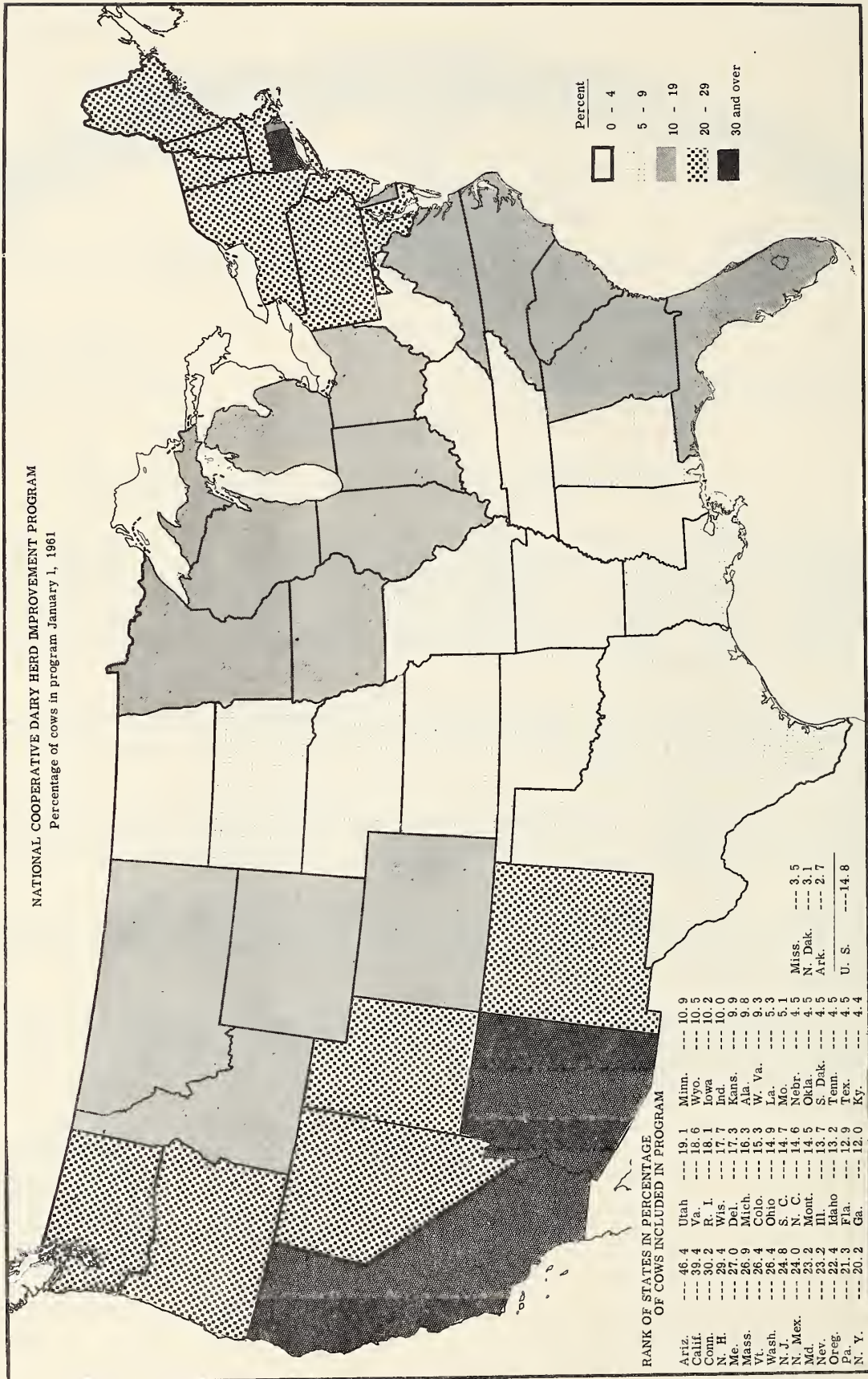
Complete data on the status of the National Cooperative Dairy Herd Improvement Program by State, as reported by State Extension Dairymen, are given on the following pages.



Growth Through Agricultural Progress

Issued April 1961

NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM
Percentage of cows in program January 1, 1961



DAIRY HERD IMPROVEMENT ASSOCIATIONS IN THE UNITED STATES
(Active January 1, 1961)

State	Associa-	Super-	Herds	Cows	Average	Average per		Milk cows in	
	tions	visors			cows	Supervisor		United States 1/	
	Number	Number	Number	Number	per herd:	Herds	Cows	Total	in DHA's
						Number	Number	Thousands	Percent
Me-----	16	34	644	22,060	34.3	18.9	649	95	23.2
N. H-----	10	21	325	12,240	37.7	15.5	583	51	24.0
Vt-----	16	71	1,125	47,792	42.5	15.8	673	258	18.5
Mass-----	12	27	546	22,795	41.7	20.2	844	94	24.3
R. I-----	2	2	57	2,709	47.5	28.5	1,355	15	18.1
Conn-----	8	25	534	24,734	46.3	21.4	989	89	27.8
N. Y-----	49	207	3,912	157,305	40.2	18.9	760	1,248	12.6
Pa-----	59	202	4,854	156,187	32.2	24.0	773	884	17.7
N. J-----	10	29	575	28,235	49.1	19.8	974	132	21.4
Md-----	18	44	977	46,433	47.5	22.2	1,055	217	21.4
Del-----	3	5	122	3,832	31.4	24.4	766	27	14.2
Va-----	62	65	1,167	60,015	51.4	18.0	923	340	17.7
W. Va-----	14	20	252	9,166	36.4	12.6	458	130	7.1
Ky-----	45	49	523	17,331	33.1	10.7	354	501	3.5
N. C-----	46	51	729	34,915	47.9	14.3	685	275	12.7
S. C-----	18	16	208	13,850	66.6	13.0	866	109	12.7
Ga-----	25	27	355	22,451	63.2	13.1	832	212	10.6
Fla-----	10	11	124	21,413	172.7	11.3	1,947	195	11.0
Ala-----	21	19	262	20,077	76.6	13.8	1,057	244	8.2
Miss-----	13	11	140	8,679	62.0	12.7	789	366	2.4
Tenn-----	33	34	506	19,384	38.3	14.9	570	486	4.0
La-----	9	9	70	4,455	63.6	7.8	495	232	1.9
Ark-----	7	9	65	2,845	43.8	7.2	316	214	1.3
Ohio-----	80	154	2,510	66,656	26.6	16.7	433	692	9.6
Ind-----	66	90	1,212	39,237	32.4	13.5	436	431	9.1
Ill-----	64	95	1,725	58,090	33.7	18.2	611	561	10.4
Mich-----	78	114	1,994	66,425	33.3	17.5	583	641	10.4
Wis-----	64	133	2,705	100,325	37.1	20.3	754	2,163	4.6
Minn-----	73	192	3,867	114,094	29.5	20.1	594	1,265	9.0
Iowa-----	71	105	1,899	57,146	30.1	18.2	544	851	6.7
Mo-----	50	53	694	25,965	37.4	13.1	490	658	3.9
N. Dak-----	14	16	190	5,921	31.2	11.9	370	272	2.2
S. Dak-----	15	19	204	6,495	31.8	10.7	342	248	2.6
Nebr-----	27	31	323	12,010	37.2	10.4	387	327	3.7
Kans-----	47	55	813	29,024	35.7	14.8	528	330	8.8
Okla-----	20	19	170	7,930	46.6	8.9	417	256	3.1
Tex-----	28	34	375	24,850	66.3	11.0	731	575	4.3
Mont-----	8	9	126	5,697	45.2	14.0	633	79	7.2
Idaho-----	36	39	824	26,193	31.8	21.1	672	202	13.0
Wyo-----	5	5	56	1,937	34.6	11.2	387	31	6.2
Nev-----	5	5	47	3,477	74.0	9.4	695	16	21.7
Utah-----	20	25	478	17,456	36.5	19.1	698	95	18.4
Colo-----	20	28	340	17,464	51.4	12.1	624	125	14.0
N. Mex-----	6	9	58	4,992	86.1	6.4	555	42	11.9
Ariz-----	4	13	174	21,002	120.7	13.4	1,616	50	42.0
Wash-----	24	46	974	48,224	49.5	21.2	1,048	233	20.7
Oreg-----	23	31	563	29,696	52.7	18.2	958	162	18.3
Calif-----	33	132	2,130	313,615	147.2	16.1	2,376	830	37.8
Hawaii-----	4	4	4	138	34.5	1.0	35	(2)	1.1
Alaska-----	0	0	0	0	-	-	-	-	-
P. R-----	4	4	31	4,507	145.4	7.8	1,127	-	-
Total or average--	1,395	2,448	42,558	1,867,469	43.9	17.4	763	17,549	10.6

1/ Estimated by the Agricultural Marketing Service; number of milk cows on farms during year excluding heifers not yet fresh.

2/ 12,940; estimated by the University of Hawaii.

GROWTH OF DAIRY-HERD-IMPROVEMENT ASSOCIATION WORK IN THE UNITED STATES
(1906-1961 inclusive)

Year	Associa- tions	Super- visors	Herds on test	Cows on test	Average cows per herd	Average production of cows on test		
						Milk Pounds	Test Percent	Butterfat Pounds
	Number	Number	Number	Number	Number			
1906----	1	----	31	239	7.7	5,300	4.1	215
1907----	4	----	----	1,606	---	5,366	4.1	220
1908----	6	----	----	3,921	---	-----	---	---
1909----	25	----	----	11,921	---	-----	---	---
1910----	40	----	----	25,000	---	1/ 5,730	4.0	1/ 227
1911----	64	----	----	40,000	---	-----	---	---
1912----	82	----	----	43,000	---	-----	---	---
1913----	100	----	----	47,150	---	-----	---	---
1914----	163	----	----	73,280	---	-----	---	---
1915----	211	----	----	105,526	---	-----	---	---
1916----	346	----	----	150,677	---	-----	---	---
1917----	459	----	11,720	216,831	18.5	-----	---	---
1918----	353	----	9,778	172,518	17.6	-----	---	---
1919----	385	----	10,000	167,313	16.7	-----	---	---
1920----	468	----	11,948	203,472	17.0	6,175	4.0	247
1921----	452	----	11,209	193,928	17.3	-----	---	---
1922----	513	----	12,508	215,321	17.2	-----	---	---
1923----	627	----	16,357	277,010	16.9	-----	---	---
1924 2/	---	----	----	-----	---	-----	---	---
1925----	732	----	18,677	307,073	16.4	7,189	4.0	284
1926----	777	----	19,540	327,653	16.8	7,331	4.0	290
1927----	837	----	21,128	362,014	17.1	7,411	4.0	293
1928----	947	----	23,327	414,891	17.8	7,476	4.0	296
1929----	1,090	----	26,182	465,804	17.8	7,498	4.0	298
1930----	1,143	----	27,888	507,549	18.2	7,642	4.0	303
1931----	1,112	----	26,308	510,714	19.4	7,812	3.9	306
1932----	1,005	----	20,351	427,044	21.0	7,858	3.9	310
1933----	881	----	15,447	358,501	23.2	7,849	4.0	313
1934----	793	----	13,694	325,837	23.8	8,015	4.0	322
1935----	809	----	15,573	364,218	23.4	7,977	4.0	322
1936----	876	----	17,344	404,412	23.3	7,912	4.0	319
1937----	992	----	20,772	496,562	23.9	7,923	4.0	320
1938----	1,106	----	23,701	558,993	23.6	7,831	4.0	317
1939----	1,228	----	25,949	625,284	24.1	7,977	4.1	323
1940----	1,300	----	27,948	676,141	24.2	8,133	4.1	331
1941----	1,383	----	31,381	763,502	24.3	8,225	4.1	335
1942----	1,421	----	32,957	816,117	24.8	8,323	4.1	339
1943----	1,057	----	24,155	616,972	25.5	8,325	4.1	338
1944----	954	----	20,825	561,587	27.0	8,296	4.1	336
1945----	949	----	21,254	577,200	27.2	8,592	4.0	346
1946----	1,124	----	23,331	627,878	27.0	8,635	4.0	349
1947----	1,426	----	28,812	775,546	26.9	8,638	4.0	348
1948----	1,668	----	33,274	886,129	26.6	8,675	4.0	350
1949----	1,787	----	35,851	943,939	26.3	8,907	4.0	359
1950----	1,973	----	40,100	1,088,872	27.2	9,172	4.0	370
1951----	2,143	----	42,949	1,186,615	27.6	9,195	4.0	370
1952----	2,109	----	40,105	1,166,297	29.1	9,192	4.0	366
1953----	2,151	----	40,983	1,226,588	29.9	9,253	4.0	368
1954----	2,175	----	41,254	1,311,698	31.8	9,363	4.0	372
1955----	2,288	----	41,240	1,333,866	32.3	9,502	3.9	375
1956----	2,266	----	40,984	1,406,306	34.4	9,713	3.9	383
1957 3/	1,700	2,310	41,638	1,479,799	35.5	9,894	3.9	389
1958----	1,544	2,293	39,985	1,548,884	38.7	10,068	3.9	394
1959----	1,500	2,337	40,284	1,607,538	39.9	10,327	3.9	401
1960----	1,509	2,397	41,293	1,746,752	42.3	-----	---	---
1961----	1,395	2,448	42,558	1,867,469	43.9	-----	---	---

1/ Estimated.

2/ Date for collecting data changed in 1924 from July 1 to January 1.

3/ Prior to 1957 associations were counted on the basis of supervisor circuits.

OWNER-SAMPLER DAIRY RECORDKEEPING IN THE UNITED STATES
(January 1, 1961)

State	Counties	Herds	Cows	Milk cows in United States 1/	
				Total	in O-S
	Number	Number	Number	Thousands	Percent
Me-----	10	134	3,516	95	3.7
N. H-----	8	92	2,416	51	4.7
Vt-----	13	628	20,300	258	7.9
Mass-----	11	112	2,451	94	2.6
R. I-----	1	1	9	15	.1
Conn-----	8	105	2,104	89	2.4
N. Y-----	49	3,263	94,841	1,248	7.6
Pa-----	60	1,261	32,074	884	3.6
N. J-----	8	128	4,361	132	3.3
Md-----	11	117	3,897	217	1.8
Del-----	3	22	541	27	2.0
Va-----	17	87	2,517	340	.7
W. Va-----	4	12	474	130	.4
Ky-----	1	1	30	501	(2)
N. C-----	16	34	1,084	275	.4
S. C-----	1	1	38	109	(2)
Ga-----	2	2	65	212	(2)
Fla-----	2	3	407	195	.2
Ala-----	1	5	294	244	.1
Miss-----	-	-	-	366	0
Tenn-----	2	3	73	486	(2)
La-----	-	-	-	232	0
Ark-----	5	6	150	214	.1
Ohio-----	80	1,705	35,708	692	5.2
Ind-----	19	168	3,980	431	.9
Ill-----	35	458	11,358	561	2.0
Mich-----	66	1,446	36,339	641	5.7
Wis-----	67	10,404	283,510	2,163	13.1
Minn-----	57	984	23,475	1,265	1.9
Iowa-----	94	1,407	29,699	851	3.5
Mo-----	24	78	1,846	658	.3
N. Dak-----	21	49	749	272	.3
S. Dak-----	31	241	4,637	248	1.9
Nebr-----	27	80	2,200	327	.7
Kans-----	19	98	2,547	330	.8
Okla-----	8	55	1,280	256	.5
Tex-----	4	7	266	575	(2)
Mont-----	4	132	5,779	79	7.3
Idaho-----	4	12	287	202	.1
Wyo-----	5	22	1,320	31	4.3
Nev-----	1	4	37	16	.2
Utah-----	10	28	489	95	.5
Colo-----	14	48	1,444	125	1.2
N. Mex-----	6	41	3,470	42	8.3
Ariz-----	2	13	2,202	50	4.4
Wash-----	18	470	13,163	233	5.6
Oreg-----	23	190	5,400	162	3.3
Calif-----	26	341	13,058	830	1.6
Hawaii-----	-	-	-	-	-
Alaska-----	-	-	-	-	-
P. R-----	-	-	-	-	-
Total-----	898	24,498	655,885	17,549	3.7

1/ Estimated by the Agricultural Marketing Service; number of milk cows on farms during year excluding heifers not yet fresh.

2/ Less than one-tenth of one percent.

WEIGH-A-DAY-A-MONTH DAIRY RECORDKEEPING IN THE UNITED STATES
(January 1, 1961)

State	Counties	Herds	Cows	Milk cows in United States ^{1/}	
				Total	in WADAM
	Number	Number	Number	Thousands	Percent
Me-----	2	6	118	95	.1
N. H-----	2	10	359	51	.7
Vt-----	0	0	0	258	0
Mass-----	1	1	70	94	.1
R. I-----	0	0	0	15	0
Conn-----	1	1	47	89	.1
N. Y-----	0	0	0	1,248	0
Pa-----	0	0	0	884	0
N. J-----	2	3	117	132	.1
Md-----	1	2	30	217	(2)
Del-----	1	10	300	27	1.1
Va-----	11	27	667	340	.2
W. Va-----	27	123	2,463	130	1.9
Ky-----	48	200	4,500	501	.9
N. C-----	27	128	4,036	275	1.5
S. C-----	13	59	2,181	109	2.0
Ga-----	16	53	2,998	212	1.4
Fla-----	9	17	3,429	195	1.8
Ala-----	29	79	3,437	244	1.4
Miss-----	14	108	4,300	366	1.2
Tenn-----	30	108	2,510	486	.5
La-----	27	151	7,853	232	3.4
Ark-----	23	105	2,779	214	1.3
Ohio-----	1	18	508	692	.1
Ind-----	0	0	0	431	0
Ill-----	45	316	7,363	561	1.3
Mich-----	26	68	1,860	641	.3
Wis-----	0	0	0	2,163	0
Minn-----	4	4	99	1,265	(2)
Iowa-----	5	40	375	851	(2)
Mo-----	51	226	5,769	658	.9
N. Dak---	19	156	1,783	272	.7
S. Dak---	0	0	0	248	0
Nebr-----	6	18	380	327	.1
Kans-----	10	50	1,012	330	.3
Okl-----	18	58	2,311	256	.9
Tex-----	8	17	980	575	.2
Mont-----	0	0	0	79	0
Idaho-----	4	16	258	202	.1
Wyo-----	0	0	0	31	0
Nev-----	1	4	200	16	1.3
Utah-----	5	13	247	95	.3
Colo-----	2	8	220	125	.2
N. Mex---	9	27	1,613	42	3.8
Ariz-----	0	0	0	50	0
Wash-----	1	1	34	233	(2)
Oreg-----	20	100	1,200	162	.7
Calif-----	1	4	230	830	(2)
Hawaii---	4	5	200	-	0
Alaska---	1	10	300	-	0
P. R-----	7	13	1,711	-	0
Total-----	532	2,363	70,847	17,549	.4

^{1/} Estimated by the Agricultural Marketing Service; number of milk cows on farms during year excluding heifers not yet fresh.

^{2/} Less than one-tenth of one percent.

THE NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM
(January 1, 1961)

State	Standard DHIA		Owner-Sampler		Weigh-a-Day-a-Month		Total		Milk cows in U.S.	
	Herds	Cows	Herds	Cows	Herds	Cows	Herds	Cows	Total 1/	In all plans 2/
	Number	Number	Number	Number	Number	Number	Number	Number	Thousands	Percent
Me-----	644	22,060	134	3,516	6	118	784	25,694	95	27.0
N. H-----	325	12,240	92	2,416	10	359	427	15,015	51	29.4
Vt-----	1,125	47,792	628	20,300	-	-	1,753	68,092	258	26.4
Mass-----	546	22,795	112	2,451	1	70	659	25,316	94	26.9
R. I-----	57	2,709	1	9	-	-	58	2,718	15	18.1
Conn-----	534	24,734	105	2,104	1	47	640	26,885	89	30.2
N. Y-----	3,912	157,305	3,263	94,841	-	-	7,175	252,146	1,248	20.2
Pa-----	4,854	156,187	1,261	32,074	-	-	6,115	188,261	884	21.3
N. J-----	575	28,235	128	4,361	3	117	706	32,713	132	24.8
Md-----	977	46,433	117	3,897	2	30	1,096	50,360	217	23.2
Del-----	122	3,832	22	541	10	300	154	4,673	27	17.3
Va-----	1,167	60,015	87	2,517	27	667	1,281	63,199	340	18.6
W. Va-----	252	9,166	12	474	123	2,463	387	12,103	130	9.3
Ky-----	523	17,331	1	30	200	4,500	724	21,861	501	4.4
N. C-----	729	34,915	34	1,084	128	4,036	891	40,035	275	14.6
S. C-----	208	13,850	1	38	59	2,181	268	16,069	109	14.7
Ga-----	355	22,451	2	65	53	2,998	410	25,514	212	12.0
Fla-----	124	21,413	3	407	17	3,429	144	25,249	195	12.9
Ala-----	262	20,077	5	294	79	3,437	346	23,808	244	9.8
Miss-----	140	8,679	-	-	108	4,300	248	12,979	366	3.5
Tenn-----	506	19,384	3	73	108	2,510	617	21,967	486	4.5
La-----	70	4,455	-	-	151	7,853	221	12,308	232	5.3
Ark-----	65	2,845	6	150	105	2,779	176	5,774	214	2.7
Ohio-----	2,510	66,656	1,705	35,708	18	508	4,233	102,872	692	14.9
Ind-----	1,212	39,237	168	3,980	-	-	1,380	43,217	431	10.0
Ill-----	1,725	58,090	458	11,358	316	7,363	2,499	76,811	561	13.7
Mich-----	1,994	66,425	1,446	36,339	68	1,860	3,508	104,624	641	16.3
Wis-----	2,705	100,325	10,404	283,510	-	-	13,109	383,835	2,163	17.7
Minn-----	3,867	114,094	984	23,475	4	99	4,855	137,668	1,265	10.9
Iowa-----	1,899	57,146	1,407	29,699	40	375	3,346	87,220	851	10.2
Mo-----	694	25,965	78	1,846	226	5,769	998	33,580	658	5.1
N. Dak---	190	5,921	49	749	156	1,783	395	8,453	272	3.1
S. Dak---	204	6,495	241	4,637	-	-	445	11,132	248	4.5
Nebr-----	323	12,010	80	2,200	18	380	421	14,590	327	4.5
Kans-----	813	29,024	98	2,547	50	1,012	961	32,583	330	9.9
Okla-----	170	7,930	55	1,280	58	2,311	283	11,521	256	4.5
Tex-----	375	24,850	7	266	17	980	399	26,096	575	4.5
Mont-----	126	5,697	132	5,779	-	-	258	11,476	79	14.5
Idaho-----	824	26,193	12	287	16	258	852	26,738	202	13.2
Wyo-----	56	1,937	22	1,320	-	-	78	3,257	31	10.5
Nev-----	47	3,477	4	37	4	200	55	3,714	16	23.2
Utah-----	478	17,456	28	489	13	247	519	18,192	95	19.1
Colo-----	340	17,464	48	1,444	8	220	396	19,128	125	15.3
N. Mex---	58	4,992	41	3,470	27	1,613	126	10,075	42	24.0
Ariz-----	174	21,002	13	2,202	-	-	187	23,204	50	46.4
Wash-----	974	48,224	470	13,163	1	34	1,445	61,421	233	26.4
Oreg-----	563	29,696	190	5,400	100	1,200	853	36,296	162	22.4
Calif-----	2,130	313,615	341	13,058	4	230	2,475	326,903	830	39.4
Hawaii---	4	138	-	-	5	200	9	338	-	-
Alaska---	-	-	-	-	10	300	10	300	-	-
P. R-----	31	4,507	-	-	13	1,711	44	6,218	-	-
Total or average	42,558	1,867,469	24,498	655,885	2,363	70,847	69,419	2,594,201	17,549	14.8

1/ Estimated by the Agricultural Marketing Service; number of milk cows on farms during year excluding heifers not yet fresh.

2/ Percentage of cows included in the National Cooperative Dairy Herd Improvement Program.

COUNTIES, BY STATE, WITH 20% OR MORE COWS INCLUDED IN THE
NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM

(January 1, 1961)

State	County (Name)	Cows (%)	State	County (Name)	Cows (%)	State	County (Name)	Cows (%)	
ALABAMA			FLORIDA (con't.)			KANSAS			
	Escambia-----	26		Gilchrist-----	37		Saline-----	30	
	Montgomery-----	22		Glades-----	35		Kiowa-Comanche-----	27	
	Russell-----	21		Jefferson-----	35		Ceary-----	26	
	Elmore-----	20		Lafayette-----	30		Reno-----	24	
				Lee-----	27		Harvey-----	23	
ARIZONA				Washington-----	25	LOUISIANA			
	Pima-----	106		Jackson-----	24		Rapides-----	51	
	Pinal-----	80		Duval-----	22		Madison-----	35	
	Maricopa-----	58		Calhoun-----	21		Beauregard-----	27	
	Greenlee-----	54		Dade-----	20		Lafayette-----	23	
	Graham-----	46	GEORGIA				Richland-----	23	
	Cochise-----	25		Houston-----	90	MAINE			
CALIFORNIA				McIntosh-----	90		Androscoggin-----	42	
	Lassen-----	69		Macon-----	87		Oxford-----	39	
	Santa Barbara-----	62		Jones-----	65		Cumberland-----	38	
	Marin-----	61		Peach-----	55		York-----	31	
	Santa Clara-----	60		Newton-----	50		Penobscot-----	30	
	Napa-----	58		Jenkins-----	46		Somerset-----	29	
	San Diego-----	58		Montgomery-----	46		Waldo-----	28	
	Monterey-----	57		Walton-----	46		Knox-Lincoln-----	27	
	San Joaquin-----	57		Jasper-----	45		Aroostook-----	24	
	Sonoma-----	57		Baldwin-----	43		Kennebec-----	24	
	Fresno-----	56		Douglas-----	43	MARYLAND			
	Kern-----	55		Spalding-----	43		Howard-----	55	
	Madera-----	52		Lee-----	39		Montgomery-----	45	
	Stanislaus-----	51		Morgan-----	37		Potomac Valley-----	38	
	Tulare-----	46		Jefferson-----	36		Harford-----	34	
	Shasta-----	43		Rockdale-----	35		Kent-----	33	
	San Bernardino-----	42		Butts-----	33		Baltimore-----	32	
	Los Angeles-----	41		Clarke-----	33		Anne Arundel-----	29	
	Merced-----	41		Appling-----	27		Cecil-----	28	
	Santa Cruz-----	40		Monroe-----	27		Marva-----	27	
	Del Norte-----	39		Brooks-----	26		Dorchester-----	26	
	Sacramento-----	38		Henry-----	26		Carroll-----	24	
	San Luis Obispo-----	37		Twigg-----	26		Frederick-----	21	
	Tehama-----	37		Lowndes-----	25	MASSACHUSETTS			
	Butte-----	31		Mitchell-----	22		Barnstable-----	45	
	Placer-Nevada-----	31	HAWAII				Dukes-----	38	
	Solano-Yolo-----	29		Kona-----	100		Berkshire-----	34	
	Alameda-----	28		Maui-----	22		Essex-----	29	
	Humboldt-----	28	ILLINOIS				Hampshire-----	29	
	Orange-----	28		Kendall-----	46		Plymouth-----	28	
	Riverside-----	25		Christian-----	41		Worcester-----	24	
	Glenn-----	24		Grundy-----	31		Franklin-----	23	
	Kings-----	24		Lake-----	31		Middlesex-----	23	
	Mendocino-Lake-----	23		Macon-----	30		Norfolk-----	23	
COLORADO				Moultrie-----	30	MICHIGAN			
	Pueblo-----	35		Kankakee-----	27		Ingham-----	35	
	Boulder-----	29		Logan-----	26		Barry-----	31	
	Fremont-----	28		Jackson-----	24		Jackson-----	28	
	Jefferson-----	28		Champaign-----	23		Eaton-----	26	
	Custer-----	27		Carroll-----	22		Lenawee-----	26	
	Weld-----	26		Du Page-----	22		Berrien-----	25	
	Larimer-----	25		Jasper-----	22		Kalamazoo-----	25	
	Huerfano-----	22		Tazewell-----	22		Washtenaw-----	25	
CONNECTICUT				De Kalb-----	21		Monroe-----	24	
	Litchfield-----	42		Iroquois-----	21		St. Joseph-----	24	
	Hartford-----	36		Bond-----	20		Calhoun-----	23	
	Windham-----	31		Effingham-----	20		Livingston-----	22	
	New Haven-----	30	INDIANA				Mason-----	22	
	Middlesex-----	29		Clark-----	48		Baraga-----	21	
	Tolland-----	25		La Porte-----	33		Lapeer-----	21	
	New London-----	24		Delaware-----	28		Muskegon-----	21	
DELAWARE				Boone-----	23	MINNESOTA			
	Sussex County-----	26		Grant-----	23		Dakota-----	32	
FLORIDA				Elkhart-----	21		Hennepin-----	27	
	Putnam-----	70		Park-----	21		Winona-----	26	
	Seminole-----	66	IOWA				Washington-----	25	
	Leon-----	58		Cerro Gordo-----	27		Goodhue-----	24	
	Sarasota-----	52		Sac-----	26		McLeod-----	23	
	Manatee-----	47		Scott-----	25		Olmsted-----	22	
	Orange-----	47		Franklin-----	24		Rice-----	21	
	Osceola-----	39		Lee-----	23		Faribault-----	20	
	Volusia-----	38		Story-----	23		Watowan-----	20	
				Polk-----	20				

COUNTIES, BY STATE, WITH 20% OR MORE COWS INCLUDED IN THE
NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM (con't.)

(January 1, 1961)

State	County (Name)	Cows (%)	State	County (Name)	Cows (%)	State	County (Name)	Cows (%)	
NEBRASKA			OHIO			SOUTH CAROLINA			
	Lancaster-----	20		Lorain-----	34		Bamberg-----	44	
	Scottsbluff-----	20		Medina-----	31		Calhoun-----	42	
				Champaign-----	30		Saluda-----	42	
NEVADA				Holmes-----	30		Beaufort-----	40	
	Douglas-----	64		Marion-----	27		Sumter-----	36	
	Lincoln-----	40		Auglaize-----	26		Marlboro-----	34	
	Churchill-----	30		Greene-----	25		Orangeburg-----	27	
				Ashland-----	23		Greenville-----	23	
NEW HAMPSHIRE				Clark-----	23		Kershaw-----	23	
	Sullivan-----	42		Fairfield-----	22		Chester-----	22	
	Cheshire-----	40		Logan-----	22		Jasper-----	22	
	Hillsboro-----	40		Shelby-----	21				
	Grafton-----	31		Allen-----	20	SOUTH DAKOTA			
	Merrimack-----	31					Custer-----	28	
	Belknap-----	29	OREGON				Lawrence-----	25	
	Coos-----	29		Washington-----	34		Pennington-----	22	
	Rockingham-----	23		Marion-----	28		Fall River-----	21	
	Strafford-----	23		Clatsop-----	26				
				Clackamas-----	23	UTAH			
NEW JERSEY				Josephine-----	23		Wasatch-----	44	
	Burlington-----	31		Lane-----	23		Salt Lake-----	37	
	Hunterdon-----	30		Multnomah-----	23		Summit-----	37	
	Sussex-----	30		Tillamook-----	23		Davis-----	36	
	Somerset-----	28					Morgan-----	34	
	Morris-----	27	PENNSYLVANIA				Utah-----	30	
	Gloucester-----	25		Clinton-----	42		Washington-----	21	
	Warren-----	22		Montgomery-----	40		Tooels-----	20	
	Cumberland-Salem---	21		Union-----	39				
				Allegheny-----	38	VERMONT			
NEW MEXICO				Dauphin-----	38		Windham-----	44	
	De Baca-----	69		Blair-----	37		Windsor-----	39	
	Dona Ana-----	63		Bucks-----	35		Bennington-----	35	
	Valencia-----	53		Huntingdon-----	35		Rutland-----	32	
	Bernalillo-----	38		Perry-----	34		Washington-----	31	
	Sierra-----	38		Cumberland-----	32		Orange-----	30	
	Santa Fe-----	37		Montour-----	31		Addison-----	29	
	Eddy-----	32		Centre-----	30		Franklin-----	26	
	Curry-----	28		Luzerne-----	29		Chittenden-----	25	
	San Miguel-----	25		Sullivan-----	29		Lamoille-----	24	
				McKean-----	27		Caledonia-----	20	
NEW YORK				Mifflin-----	27				
	Suffolk-----	58		Northumberland-----	27	VIRGINIA			
	Ontario-----	46		Schuylkill-----	27		Princess Anne-----	53	
	Dutchess-----	45		Wyoming-----	27		Fairfax-----	34	
	Genesee-----	41		Chester-Delaware-----	26		Loudoun-----	27	
	Wayne-----	39		Lehigh, Carbon & Monroe-----	26		Norfolk-----	26	
	Columbia-----	36		Columbia-----	25		James City-----	25	
	Orleans-----	32		Northampton-----	25		Culpeper-----	24	
	Tompkins-----	32		Berks-----	24		Northampton-----	23	
	Schoharie-----	31		Lebanon-----	24		Dinwiddie-----	22	
	Schuyler-----	31		Bradford-----	23		Nottoway-----	22	
	Onondaga-----	30		Lancaster-----	23		Amelia-----	21	
	Seneca-----	30		Potter-----	23		Middlesex-----	21	
	Wyoming-----	30		Bedford-----	22		King William-----	20	
	Livingston-----	28		Wayne-----	22	WASHINGTON			
	Chautauqua-----	27		York-----	22		Jefferson-----	65	
	Chemung-----	27		Elk-----	21		Walla Walla-----	61	
	Chenango-----	27		Franklin-----	21		Grays Harbor-----	46	
	Cortland-----	27		Fulton-----	21		Kittitas-----	42	
	Delaware-----	26		Juniata-----	21		Snohomish-----	42	
	Monroe-----	24		Lycoming-----	21		Wahkiakum-----	42	
	Cayuga-----	22		Susquehanna-----	21		Skagit-Island-----	41	
	Erie-----	22		Tioga-----	21		Chelan-----	39	
	Ulster-----	22		Venango-----	20		Clallam-----	38	
	Rensselaer-----	21					Spokane-----	38	
	Allegany-----	20	RHODE ISLAND				Thurston-Mason-----	36	
	Madison-----	20		Kent-----	44		Grant-----	33	
	Montgomery-----	20		Washington-----	28		Pierce-----	31	
	Tioga-----	20		Newport-----	22		Kitsap-----	30	
							King-----	26	
							Franklin-----	25	
							Clark-Cowlitz-----	22	
						WISCONSIN			
							(no report)		

OFFICIALS IN CHARGE OF DAIRY-HERD-IMPROVEMENT ASSOCIATIONS IN THE STATES

Ala----- R. Sam Jones, Ext. Service, Auburn University, Auburn.
Alaska---- W. J. Sweetman, Ext. Service, University of Alaska, Palmer.
Ariz----- W. R. Van Sant, Ext. Service, University of Arizona, Tucson.
Ark----- Morris B. Ewing, Ext. Service, P. O. Box 391, University of Arkansas,
Little Rock.
Calif----- C. L. Pelissier, Ext. Service, University of California, Davis.
Colo----- Dawson C. Jordan, Ext. Service, Colorado State University, Fort Collins.
Conn----- Robert H. Benson, Ext. Service, University of Connecticut, Storrs.
Del----- W. R. Hesseltine, Ext. Service, University of Delaware, Newark.
Fla----- C. W. Reaves, Ext. Service, University of Florida, Gainesville.
Ga----- W. H. McKinney, Ext. Service, University of Georgia, Athens.
Hawaii--- Harvey M. Vollrath, Ext. Service, University of Hawaii, Honolulu 10.
Idaho----- Vacancy, Dairy Ext. Division, University of Idaho, 317 1/2 N. 8th St.,
Boise.
Ill----- J. G. Cash, Ext. Service, University of Illinois, Urbana.
Ind----- S. M. Gregory, Ext. Service, Purdue University, W. Lafayette.
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Kans----- E. Ralph Bonewitz, Ext. Service, Kansas State University, Manhattan.
Ky----- E. C. Troutman, Ext. Service, University of Kentucky, Lexington 29.
La----- E. W. Neasham, Ext. Service, Louisiana State University, Baton Rouge 3.
Me----- Norman R. Ness, Ext. Service, University of Maine, Orono.
Md----- J. L. Cason, Ext. Service, University of Maryland, College Park.
Mass----- C. H. Parsons, Ext. Service, University of Massachusetts, Amherst.
Mich----- L. A. Johnson, Ext. Service, Michigan State University, East Lansing.
Minn----- Ralph W. Wayne, Ext. Service, University of Minnesota, St. Paul 1.
Miss----- George B. Crain, Ext. Service, Mississippi State University,
State College.
Mo----- E. T. Itschner, Ext. Service, University of Missouri, Columbia.
Mont----- Earl J. Peace, Ext. Service, Montana State College, Bozeman.
Nebr----- C. W. Nibler, Ext. Service, University of Nebraska, Lincoln 1.
Nev----- James D. Schuh, Ext. Service, University of Nevada, Reno.
N. H----- G. B. Olsson, Ext. Service, University of New Hampshire, Durham.
N. J----- E. T. Oleskie, Ext. Service, Rutgers University, New Brunswick.
N. Mex--- Borden Ells, Ext. Service, N. Mex. State University, University Park.
N. Y----- Raymond Albrectsen, Ext. Service, Cornell University, Ithaca.
N. C----- M. E. Senger, Ext. Service, N. C. State College, State College Station,
Raleigh.
N. Dak--- C. C. Olson, Ext. Service, N. Dak. Agricultural College, State College
Station, Fargo.
Ohio----- R. A. Porterfield, Ext. Service, Ohio State University, Columbus 10.
Okla----- J. E. Pendleton, Ext. Service, Oklahoma State University, Stillwater.
Oreg----- D. E. Anderson, Ext. Service, Oregon State College, Corvallis.
Pa----- H. C. Gilmore, Ext. Service, Pennsylvania State University, University
Park.
P. R----- Cesar A. Calderon, Ext. Service, University of Puerto Rico, Rio Piedras.
R. I----- James W. Atwood, Ext. Service, University of Rhode Island, Kingston.
S. C----- C. H. Lomas, Ext. Service, Clemson Agricultural College, Clemson.
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Va----- W. S. Griffith, Ext. Service, Virginia Polytechnic Institute,
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Wash----- K. I. Gross, Ext. Service, Washington State University, Pullman.
W. Va----- L. N. Northern, Ext. Service, West Virginia University, Morgantown.
Wis----- E. E. Starkey, Ext. Service, University of Wisconsin, Madison 6.
Wyo----- I. W. Slater, Ext. Service, University of Wyoming, Laramie.

